

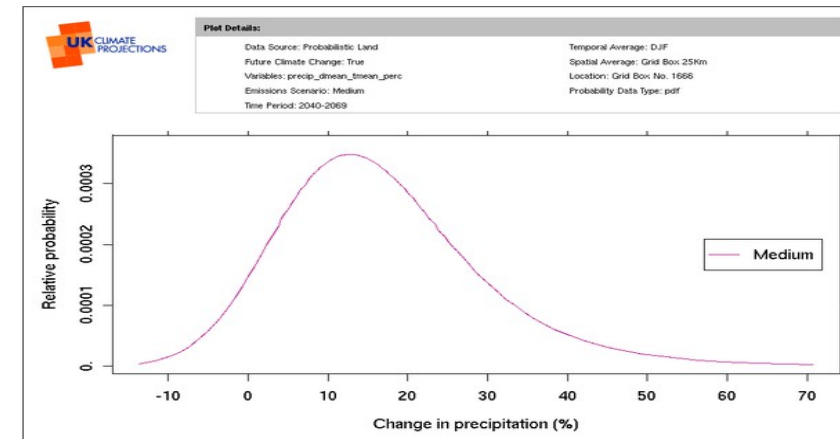
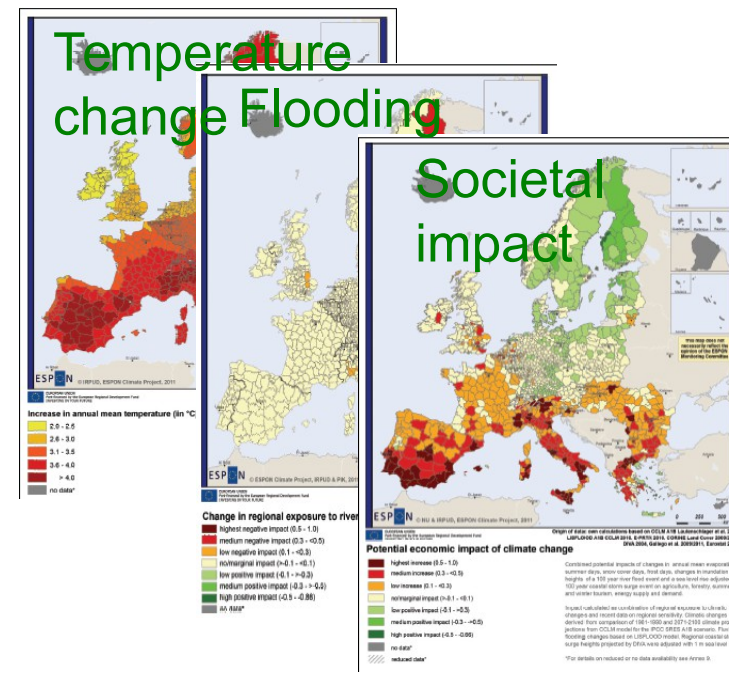
A Climate Information Platform for Copernicus

www.clipc.eu

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CLIPC Mission

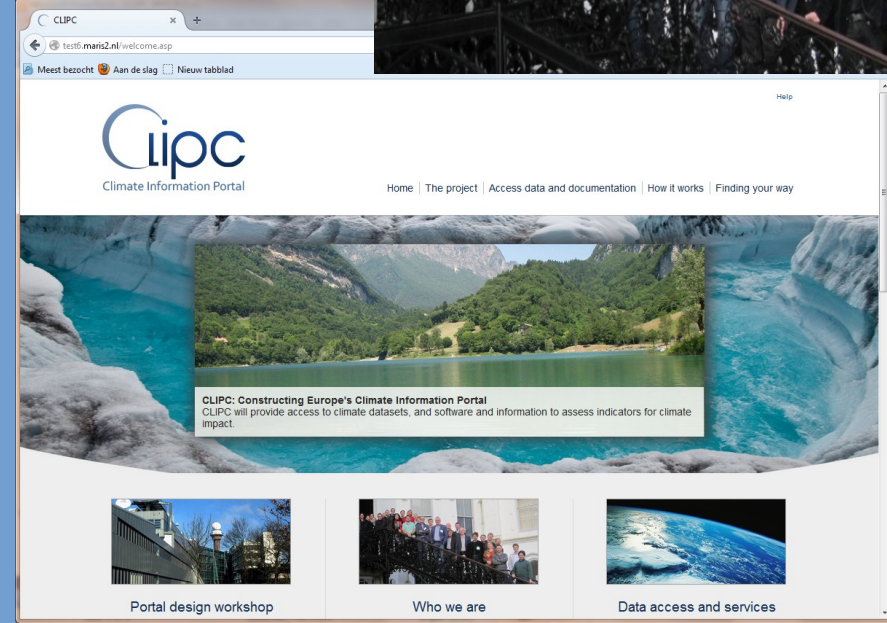
- CLIPC will design a platform to provide access to climate information of direct relevance to a wide variety of users, from scientists to policy makers and private sector decision makers;
- The “one-stop-shop” platform will provide data and information on climate and climate impacts, and ensure that the providence of science and policy relevant data products is thoroughly documented;
- Engage with user communities to inform development.



ESA J. Huart

CLIPC and the Copernicus Climate Change Service (C3S)

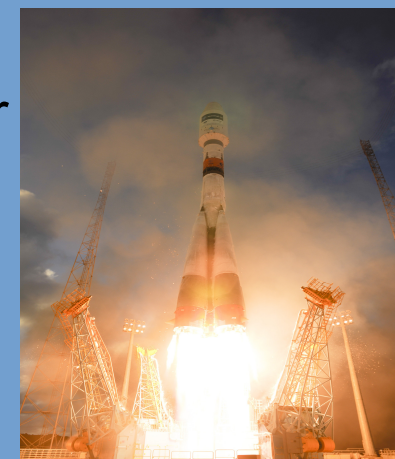
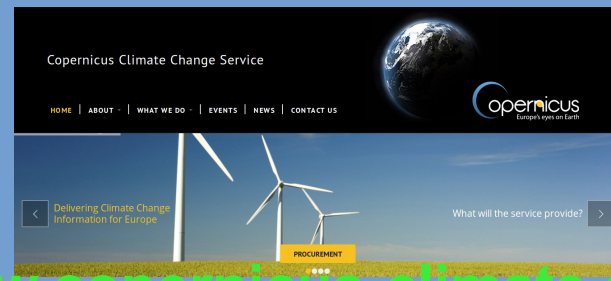
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Data
Requirements
Tools
Standards
Networks
People

C3S will provide operational services, making the final link in the chain between the Copernicus funded Sentinel space missions and the user communities.

www.copernicus-climate.eu



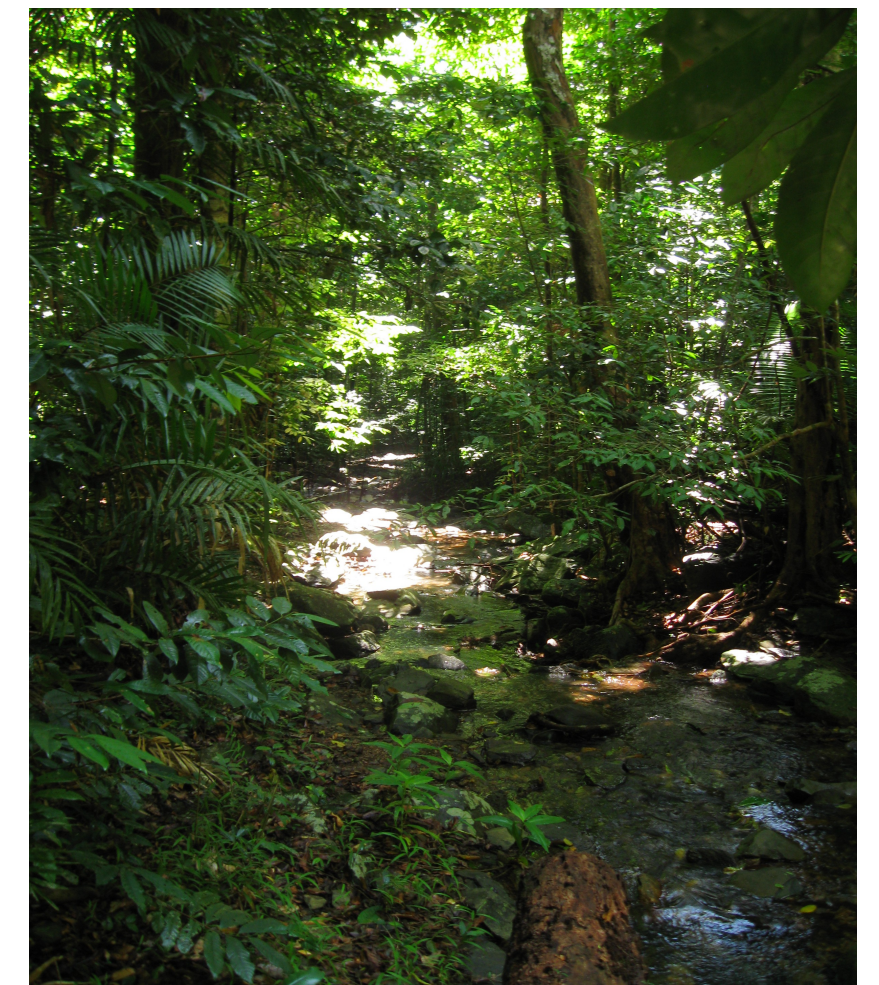
CLIPC is a research project developing a data service infrastructure to support dissemination of climate knowledge

Exploring uncertainty



Ross Salawitch Research Group

While projections of global mean surface temperature are now well understood, substantial uncertainty remains in many areas of more direct relevance to climate service users.



Daintree Rainforest, Queensland, Australia, Wikipedia

User requirements

I want a list of datasets relevant to me

Flexible search options, driven by vocabularies

Exploit standards for flexibility, robustness, and meeting user expectations

Earth System Grid Federation

INSPIRE and ISO 19115 compliant catalogues; well known file formats; interdisciplinary data format standards; well documented data format protocols.

All terms defined in trans-disciplinary W3C standard documents, including definitions of relations between terms.

User interfaces

Data services

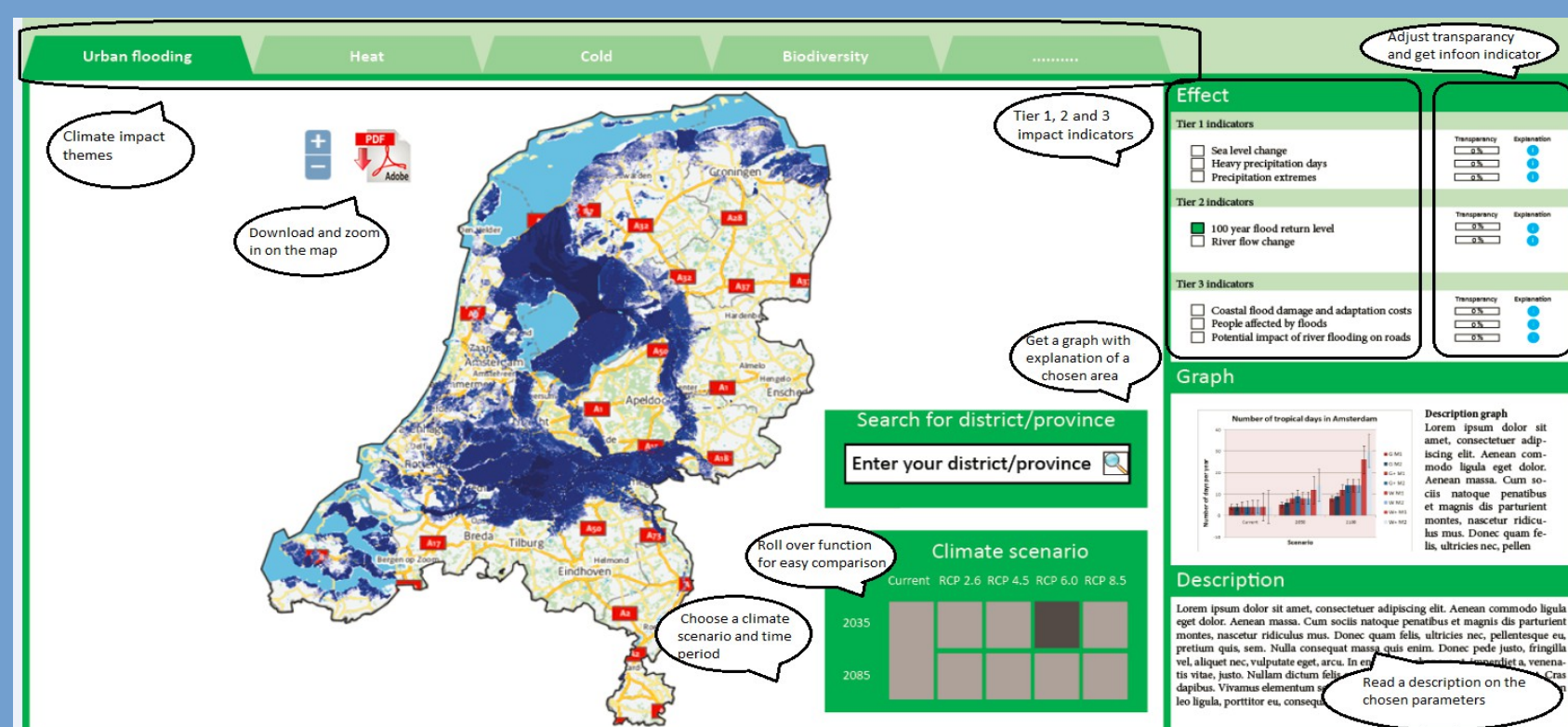
Structured archives and repositories

Standards for data and meta-data

Structured lists of keywords

Visualisation and transformation

A dedicated visualisation portal, building on generic data standards and Web Map Services, will provide users with a flexible and intuitive tool for navigation of climate impact indicators. Additional interfaces will support access to climate data and a toolbox for ranking and aggregating indicators.



Standards

European Commission

- INSPIRE: Infrastructure for Spatial Information in the European Community

International Standards Organisation

- ISO 19115 for catalogue meta-data

World Wide Web Consortium

- SKOS for knowledge organisation
- PROV for provenance information
- PRO for publishing roles

Open Geospatial Consortium

- WMS, WPS for visualisation and transformation services.

Global Climate Observing System

- Essential Climate Variables

Domain standards

- Climate Forecast Conventions (CF) – for scientific data
- Gridded Binary format for re-analysis (GRIB)
- CMIP conventions for climate scenario data
- Expert Team on Climate Change Detection Indices (ETCCDI)